

1ST LAW OF THERMODYNAMICS

"CONSERVATION OF ENERGY"

ENERGY CAN NOT BE CREATED OR DESTROYED. IT IS CONVERTED FROM ONE FORM TO ANOTHER.

FORMS OF ENERGY

- ELECTRICITY
- SOUND
- NUCLEAR
 - Fusion
 - Fission
- HEAT
- WIND
- STATIC ELECTRICITY
- COAL
- SOLAR
- Chemical
- Geothermal
- LIGHT
- HYDRAULIC
- MECHANICAL
 - KINETIC
 - POTENTIAL
- STEAM

2nd LAW of Thermodynamics

HEAT TRAVELS FROM HOT TO COLD

CONSTANT

SOMETHING THAT DOES NOT
CHANGE IN AN EXPERIMENT

VARIABLE

SOMETHING THAT DOES
CHANGE IN AN EXPERIMENT

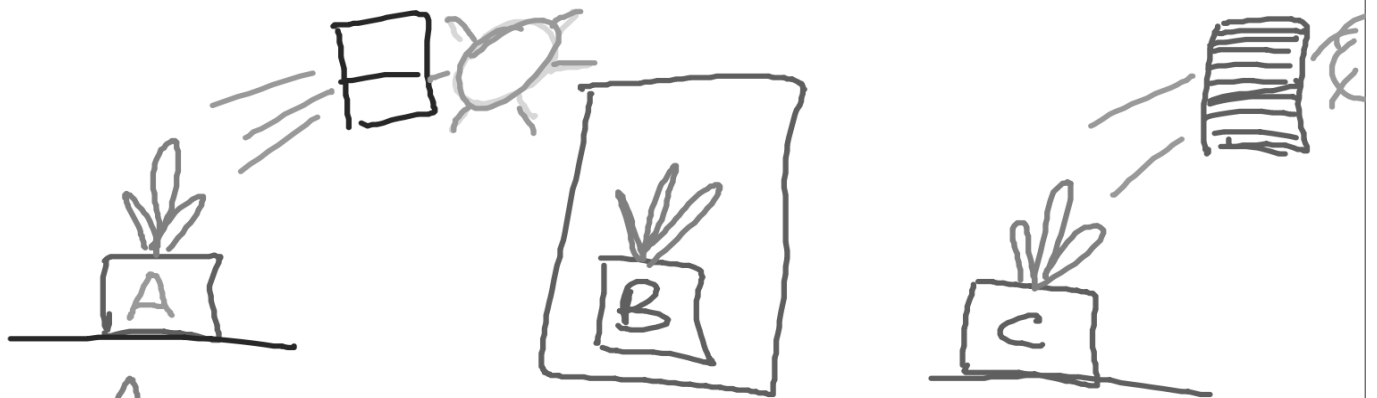
2 TYPES OF VARIABLES

"INDEPENDENT VARIABLE"
THE VARIABLE THAT "I"
CHANGE

"DEPENDENT VARIABLE"
THE VARIABLE THAT CHANGES
"D"URING THE EXPERIMENT

CONTROL

AN EXAMPLE THAT ALL
OTHERS WILL BE COMPARED
TO.



height of PLANTS OVER 1 month



INDEPENDENT VARIABLE
AMOUNT OF SUNLIGHT

DEPENDENT VARIABLE
Height of PLANT

CONTROL NORMAL SITUATION
PLANT A

CONSTANTS
TYPE OF PLANT
TEMPERATURE

→ AMOUNT OF
WATER
SOIL
FERTILIZER